

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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31 1-14. (Cancelled)

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15. (Previously amended) A method for screening for a bioactive agent capable of binding to the cell cycle protein R0101, comprising:

a) combining ^{a proliferating cell nuclear antigen (PCNA) with} said cell cycle protein R0101 and a candidate bioactive agent; and

b) determining the binding of said candidate bioactive agent to said cell cycle protein R0101, wherein said cell cycle protein R0101 comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2, and wherein said cell cycle protein R0101 binds to ^{PCNA} ~~proliferating cell nuclear antigen (PCNA)~~.

16. (Previously amended) A method according to Claim 15, wherein said cell cycle protein R0101 comprises the amino acid sequence set forth in SEQ ID NO:2.

17. (Currently amended) A method according to Claim 15, wherein said candidate bioactive agent is a member of a library of candidate bioactive agents [is added to] ^{the cell from which cycle protein R0101} and said cell is a member of a plurality of cells comprising a recombinant nucleic acid encoding said ^{cell cycle protein} R0101 ~~protein~~.

20. (Currently amended) A method according to Claim 15, [further comprising determining] wherein said binding modifies the activity of said R0101 ^{cell cycle protein} ~~protein~~ _{activity} [in the presence of said candidate bioactive agent].

21. (Previously added) A method according to Claim 15, wherein step a) further comprises combining PCNA with said cell cycle protein R0101 and the candidate bioactive agent.
